

SILISETTEF PAINT HP

SETTEF

SILICA PAINT

Sheet code SET464633T
Revision N.03 dated 25.06.2018 – Pag. 1 di 4

POTASSIUM SILICATE BASED, HYDROPHOBIC MINERAL PAINT



MAIN FEATURES

DESCRIPTION SILISETTEF PAINT HP is a mineral paint for exteriors with high characteristics of resistance to atmospheric agents. It is ideal on old mineral based plasters to be restored and on new mineral plasters based on lime or and cement, whenever one wants to attain the maximum permeability to water vapour. It also indicated to restore the ancient effect of old mineral coatings. SILISETTEF PAINT HP is conforming to norm DIN 18363 point 2.4.1

CHARACTERISTICS

- Excellent breathability as the microcrystalline structure originated from the crystallization of silica is porous and allows the passage of water vapor.
- Excellent Water repellence.
- Resistance to the alkali.
- Easy to apply with brush.
- Excellent adhesion on all types of mineral substrate such as plasters containing lime, mortar, cement, excluding gypsum in all its forms.
- Aesthetic and chromatic effects very similar to the old coloring with possible halos and light and shade effect.
- Conforming to norm DIN 18363

INTENDED USE

- Exterior wall
- New mineral surfaces, old and degraded mineral surfaces, new cement plasters, Old or partially degraded cement plaster

COLORS

- SILISETTEF PAINT HP is available in white and colours according to the proposed collection Colorplan 1 e Colorplan 2

**CLASSIFICATION
UNI 8681**

- B4. A.O.C.2.QA
- Water soluble, single component, chemical reactive drying, matt, inorganic silicate based (potassium silicate), finishing paint.

**CLASSIFICATION VOC
(Directive 2004/42/CE)**

- Exterior walls of mineral substrate.
EU limit value for SILISETTEF PAINT HP (cat. A/c): 40 g/L (2010).
SILISETTEF PAINT HP contains max.40 g/L of VOC.

PACKAGING

- SILISETTEF PAINT HP is available in the 14 Lt format

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	MAIN DATAa 20°C e 60% U.R.	METHOD
Coat finish and aspect	Matt	
Density g/ml	1,38 ÷ 1,55	UNI 8910
Viscosity Brookfield cps	5000 ÷ 8000	ASTM D 2196
Spreading rate per coat m ² /Lt	7 ÷ 12	ISO 7254
Flash Point	Not iflammable	UNI 8909
Treatment with a cycle of 4 h UV/60°, 4 h condensate/40°C UV-B lamp, over fibreglass support treated with Prymer for silicate	Keeps the colour for 1200 hours of UV- condensate (according to ISO 7724) Resists to powdery for 1200 of UV- condensate (according to ISO 4628/6)	ASTM G 53
EN 1062-1 Classification	G3 E3 S1 V1 W3 A0 C0	
Gloss	classe G3 (<10, Matt)	EN ISO 2813
Dry film thickness	classe E3 (100-200 µm)	EN 1062-1
Grain size	classe S1 (<100 µm, Fine)	EN ISO 1524
Water vapour transmission rate	classe V1 (Sd <0,14m, Alto)	EN ISO 7783
Water absorption rate	classe W3 (W24<0.1 kg/m ² h ^{1/2} , Bassa)	EN 1062-3
Resistance to cracks	classe A0 (not relevant)	EN 1062-7
Permeability to CO2	classe C0 (not relevant)	EN 1062-6
Shelf Life (in a dry cool place)	At least 12 months	UNI 10154
Touch dry h	2	
Hard dry h	24	
Dry to recoat h	Dopo 24	
Developing water repellency h	48	

SILISETTEF PAINT HP



SILICA PAINT

Sheet code SET464633T
Revision N.03 dated 25.06.2018 – Pag. 3 di 4

APPLICATION CYCLE

DILUTION up to 20% in volume depending on the absorption of the substrate

THINNER Demineralized water

APPLICATION Brush

SUBSTRATES	Preparation of substrates	Primer	Finishing
New mineral surfaces	The substrate must be cured, homogeneous, clean and free from old paints or coatings, disarming oils or other foreign substances. The application on fresh substrates can cause whitening or detachment of the product	Apply a coat of primer SILIPRIMER and wait 24 hours.	Gently stir the product until obtaining a homogeneous mass and dilute with demineralized water up to 20% by volume. Apply a coat of thinning SILISETTEF PAINT HP. Wait 24 hours and then apply second coat of SILISETTEF PAINT HP diluted IMPORTANT: SILISETTEF PAINT HP cannot be applied on wood, gypsum or substrates already coated with synthetic paint.
Old and degraded mineral surfaces	Clean perfectly the surface by brushing, sand blasting or high pressure vapour cleaning equipment, removing any trace of old paints and/or plasters dirt, grease, etc. Treat the surface with anti-mould solution SETTEF if algae or moulds are present	Check that the wall is completely dry and apply a coat SILIPRIMER .	
New cement plasters	The media need to be well seasoned, smooth, clean and free from traces of disarming or other foreign substances. The application fresh substrates can cause whitening or detachment of the product.	Apply SILIPRIMER and wait 24 hours	
Old or partially degraded cement plaster	Clean perfectly the surface by brushing, sand blasting or high pressure vapour cleaning equipment, removing any trace of old paints and/or plasters dirt, grease, etc. Treat the surface with anti-mould solution SETTEF if algae or moulds are present	Apply a coat of SILIPRIMER and wait 24 hours. In the case of highly degraded conditions contact us for technical inspection	

CLEANING TOOLS ▪ With water, immediately after use.

PRACTICAL ADVICE

- Store the product in original sealed drums protected from frost. Close the drums immediately after use
- At the moment of application the substrate should be sufficiently dry. Do not apply on surfaces with rising damp.
- Protect the applied product until complete deep drying from rain, frost, fog, dew and dust for at least 48 hours.
- Do not apply under direct sunshine, with high winds and hot temperatures, with fog or high humidity in the air, if it rains or if frosts are forecast during the night.
- To avoid the formation of joint lines, it is advisable to apply the product in a sole layer per each coat. Complete each single facing without getting a dry edge to the product. For large surfaces, it will be advisable to plan the joint

marks (i.e. at floor levels, down-waterspouts or where technical joints already exist).

- Beside the water vapour permeability and the resistance to moulds and algae, the potassium silicate gives the surface aesthetical and chromatic effects similar to the soft and natural appearance of the ancient mineral coatings. New plasters must cure for at least 4-6 weeks to complete the natural carbonation. All repair works must cure perfectly as well.
- For a perfect homogenization of the colorant promote mixing with a spatula then stir with mixer for at least 10 minutes.
- Clean working tools with water immediately after use.
- Environmental and surface conditions:
 - Ambient temperature: min. +7°C / max. +35°C;
 - Ambient Relative Humidity: < 80%;
 - Surface Temperature: min. +5°C / max. +35°C

RESISTANCE TO RAIN FALL

- The product completes its drying and polymerizing process within 8-10 days in ideal environment conditions (+5°C / +35°C, max 85% R.H.). Should the product undergo sudden rainfall during this period of time, translucent and sticky sagging could appear. This temporary phenomenon does not alter the technical characteristics of the product and could be easily eliminated with a water pressure washing or by the following rainfalls

SAFETY PRECAUTIONS

- The product is strongly alkaline. Protect eyes during application. In case of contact wash with plenty of water and consult the doctor.
- Safety information for users is contained in the relative Safety Data Sheet.
- The empty buckets with traces of dry product, must be disposed of according to local regulations.
- Silicates are reactive: before the application it is necessary to protect all surrounding parts made of glass, marble, metal ceramic and every surface which must not be painted.

All the technical data herein contained are fruit of our best experience and have indicative value and do not constitute guarantee of result. All the information and data reported herein are subject to variation at any time according to the latest development in the production technology. The application of the product is carried out beyond our control and it is therefore under the exclusive responsibility of the client. The correct use of the products implies the compliance of the GENERAL prescriptions of use and in particular those indicated on this data sheet, particularly concerning the suitability and preparation of the substrates. The technical service of CROMOLOGY Italia S.p.A. is at the user disposal for the supply of any integrative information required.

THIS DATA SHEET ANNULS AND SUBSTITUTES ANY PREVIOUS VERSION.

**AZIENDA CON
SISTEMA DI GESTIONE
CERTIFICATO DA DNV GL**
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

SETTEF is a brand of
Cromology Italia Spa
Via IV Novembre, 4
55016 Porcari (LU) Italy
Tel. 199 119955 – Fax. 199 119977
www.settef.it